-	4986 1155	((438/22) or (438/29) or (438/31) or (438/65) or (438/69) or (438/456) or (438/457) or (438/606) or (438/609) or (438/611) or (438/614) or (438/617) or (257/432) or (257/435) or (257/447) or (438/27) or (438/65) or (323/902) or (250/551) or (257/80) or (257/81) or (257/82) or (257/83) or (257/84) or	USPAT; US-PGPUB	2003/04/05 15:06
-	1155	or (438/614) or (438/617) or (257/432) or (257/435) or (257/447) or (438/27) or (438/65) or (323/902) or (250/551) or (257/80) or (257/81) or (257/82) or (257/83) or (257/84) or	LUS-PGPUR	2003/04/05 15.06
-	1155	(257/447) or (438/27) or (438/65) or (323/902) or (250/551) or (257/80) or (257/81) or (257/82) or (257/83) or (257/84) or	100,00	į
-	1155	(257/80) or (257/81) or (257/82) or (257/83) or (257/84) or		
-	1155			
-	1155	(257/85)).CCLS.		Ì
		(((438/22) or (438/29) or (438/31) or (438/65) or (438/69) or	USPAT:	2003/04/03 15:44
	i	(438/456) or (438/457) or (438/606) or (438/609) or (438/611)	US-PGPUB	2000/04/05 10:44
		or (438/614) or (438/617) or (257/432) or (257/435) or	00.02	
		(257/447) or (438/27) or (438/65) or (323/902) or (250/551) or		i
1		(257/80) or (257/81) or (257/82) or (257/83) or (257/84) or		1
Į.	i	(257/85)).CCLS.) and ((first second) with (circuit))		
-	1	((((438/22) or (438/29) or (438/31) or (438/65) or (438/69) or	USPAT;	2003/04/03 15:46
i		(438/456) or (438/457) or (438/606) or (438/609) or (438/611)	US-PGPUB	
1	,	or (438/614) or (438/617) or (257/432) or (257/435) or		
		(257/447) or (438/27) or (438/65) or (323/902) or (250/551) or		
1	,	(257/80) or (257/81) or (257/82) or (257/83) or (257/84) or	j	
		(257/85)).CCLS.) and ((first second) with (circuit))) and (hole		
		and (fiber with optic)) with (substrate wafer)	LICEAT	2002/04/00 45 17
- ;	11	((((438/22) or (438/29) or (438/31) or (438/65) or (438/69) or (438/456) or (438/45	USPAT;	2003/04/03 15:47
		(438/456) or (438/457) or (438/606) or (438/609) or (438/611)	US-PGPUB	į
1		or (438/614) or (438/617) or (257/432) or (257/435) or		}
		(257/447) or (438/27) or (438/65) or (323/902) or (250/551) or (257/80) or (257/81) or (257/82) or (257/83) or (257/84) or		}
		(257/80) of (257/81) of (257/82) of (257/83) of (257/84) of (257/85)).CCLS.) and ((first second) with (circuit))) and (fiber		
		with optic) with (substrate wafer)		
_	114	((((438/22) or (438/29) or (438/31) or (438/65) or (438/69) or	USPAT:	2003/04/03 16:42
1		(438/456) or (438/457) or (438/606) or (438/609) or (438/611)	US-PGPUB	2000.04700 10.42
		or (438/614) or (438/617) or (257/432) or (257/435) or		
		(257/447) or (438/27) or (438/65) or (323/902) or (250/551) or	}	
		(257/80) or (257/81) or (257/82) or (257/83) or (257/84) or		
		(257/85)).CCLS.) and ((first second) with (circuit))) and fiber		
		with optic		
-	664	(substrate with (optical with fiber)) and ((first second) with	USPAT;	2003/04/03 16:45
		(circuit))	US-PGPUB	0000/04/00 10 :=
- 1		((substrate with (optical with fiber)) and ((first second) with	USPAT;	2003/04/03 16:46
		(circuit))) and cladding and core	US-PGPUB	2002/04/02 46:50
-		5362976.URPN. ("3023567" "3060047" "3082268" "4081701" "4304712"	USPAT	2003/04/03 16:50 2003/04/03 16:52
-	54	("3923567" "3959047" "3982268" "4081701" "4394712" "4595428" "4631636" "4653025" "4739446" "4870470"	USPAT	2003/04/03 10.32
		"4977439" "5061987" "5079618" "5153814" "5229327"		
i	ļ	"5258648" "5275001" "5313361" "5317197" "5343366"		
		"5352998" "5362976" "5392407" "5409547" "5415699"		
1	i	"5432823" "5468681" "5532506" "5567654" "5587119"		
		"5598031" "5610366" "5618752" "5622875" "5637828"		
		"5646067" "5656548" "5657481" "5682062" "5692558"		
İ		"5699291" "5753529" "5767001" "5786628" "5807783"		
		"5821624" "5834799" "5855735" "5861666" "5901050"		
		"5902118" "5903045" "5915167" "6016256").PN.		0000104107 40 71
- 1	850	((438/27) or (438/31) or (438/24) or (438/65) or (438/69) or	USPAT;	2003/04/05 13:51
ļ	1	(438/74) or (438/for.136)).CCLS.	US-PGPUB	2002/04/04 44 44
	_	(((438/27) or (438/31) or (438/24) or (438/65) or (438/69) or	USPAT;	2003/04/04 14:41
-	0		US-PGPUB	
-	0	(438/74) or (438/for.136)).CCLS.) and (circuit device) with	1	!
-		(438/74) or (438/for.136)) CCLS.) and (circuit device) with (emmisive and responsive)	LICDAT	2002/04/04 44-44
-	0	(438/74) or (438/for.136)) CCLS.) and (circuit device) with (emmisive and responsive) (((438/27) or (438/31) or (438/24) or (438/65) or (438/69) or	USPAT;	2003/04/04 14:41
-		(438/74) or (438/for.136)) CCLS.) and (circuit device) with (emmisive and responsive) (((438/27) or (438/31) or (438/24) or (438/65) or (438/69) or (438/74) or (438/for.136)) CCLS.) and (emmisive and	USPAT; US-PGPUB	2003/04/04 14:41
-	1	(438/74) or (438/for.136)).CCLS.) and (circuit device) with (emmisive and responsive) (((438/27) or (438/31) or (438/24) or (438/65) or (438/69) or (438/74) or (438/for.136)).CCLS.) and (emmisive and responsive)	US-PGPUB	
-	1	(438/74) or (438/for.136)).CCLS.) and (circuit device) with (emmisive and responsive) (((438/27) or (438/31) or (438/24) or (438/65) or (438/69) or (438/74) or (438/for.136)).CCLS.) and (emmisive and responsive) (((438/27) or (438/31) or (438/24) or (438/65) or (438/69) or	US-PGPUB USPAT;	
-	1	(438/74) or (438/for.136)).CCLS.) and (circuit device) with (emmisive and responsive) (((438/27) or (438/31) or (438/24) or (438/65) or (438/69) or (438/74) or (438/for.136)).CCLS.) and (emmisive and responsive) (((438/27) or (438/31) or (438/24) or (438/65) or (438/69) or (438/74) or (438/for.136)).CCLS.) and fiber with through with	US-PGPUB	
-	1 29	(438/74) or (438/for.136)).CCLS.) and (circuit device) with (emmisive and responsive) (((438/27) or (438/31) or (438/24) or (438/65) or (438/69) or (438/74) or (438/for.136)).CCLS.) and (emmisive and responsive) (((438/27) or (438/31) or (438/24) or (438/65) or (438/69) or (438/74) or (438/for.136)).CCLS.) and fiber with through with (substrate wafer die)	US-PGPUB USPAT; US-PGPUB	
-	1	(438/74) or (438/for.136)).CCLS.) and (circuit device) with (emmisive and responsive) (((438/27) or (438/31) or (438/24) or (438/65) or (438/69) or (438/74) or (438/for.136)).CCLS.) and (emmisive and responsive) (((438/27) or (438/31) or (438/24) or (438/65) or (438/69) or (438/74) or (438/for.136)).CCLS.) and fiber with through with (substrate wafer die) (((438/27) or (438/31) or (438/24) or (438/65) or (438/69) or	US-PGPUB USPAT; US-PGPUB USPAT;	2003/04/04 14:49
-	1 29	(438/74) or (438/for.136)).CCLS.) and (circuit device) with (emmisive and responsive) (((438/27) or (438/31) or (438/24) or (438/65) or (438/69) or (438/74) or (438/for.136)).CCLS.) and (emmisive and responsive) (((438/27) or (438/31) or (438/24) or (438/65) or (438/69) or (438/74) or (438/for.136)).CCLS.) and fiber with through with (substrate wafer die) (((438/27) or (438/31) or (438/24) or (438/65) or (438/69) or (438/74) or (438/for.136)).CCLS.) and fiber with (via cavity	US-PGPUB USPAT; US-PGPUB	2003/04/04 14:41 2003/04/04 14:49 2003/04/04 14:50
-	1 29 19	(438/74) or (438/for.136)).CCLS.) and (circuit device) with (emmisive and responsive) (((438/27) or (438/31) or (438/24) or (438/65) or (438/69) or (438/74) or (438/for.136)).CCLS.) and (emmisive and responsive) (((438/27) or (438/31) or (438/24) or (438/65) or (438/69) or (438/74) or (438/for.136)).CCLS.) and fiber with through with (substrate wafer die) (((438/27) or (438/31) or (438/24) or (438/65) or (438/69) or (438/74) or (438/for.136)).CCLS.) and fiber with (via cavity throug hole) with (substrate wafer die)	US-PGPUB USPAT; US-PGPUB USPAT; US-PGPUB	2003/04/04 14:49
-	1 29	(438/74) or (438/for.136)).CCLS.) and (circuit device) with (emmisive and responsive) (((438/27) or (438/31) or (438/24) or (438/65) or (438/69) or (438/74) or (438/for.136)).CCLS.) and (emmisive and responsive) (((438/27) or (438/31) or (438/24) or (438/65) or (438/69) or (438/74) or (438/for.136)).CCLS.) and fiber with through with (substrate wafer die) (((438/27) or (438/31) or (438/24) or (438/65) or (438/69) or (438/74) or (438/for.136)).CCLS.) and fiber with (via cavity	US-PGPUB USPAT; US-PGPUB USPAT;	2003/04/04 14:49

"5170451" "5265177" "5515468" "5523628" "5545893" "5574814" "5586207" "5591959" "5675685" "5686317" "5686318" "5687267" "5689279" "5692083" "5699073" "5703394" "5708280" "5764832" "5923091" "6217232").PN.	//04/04 14:53 //04/04 15:07 //04/04 15:07
"5574814" "5586207" "5591959" "5675685" "5686317" "5686318" "5687267" "5689279" "5692083" "5699073" "5703394" "5708280" "5764832" "5923091" "6217232").PN.	
"5574814" "5586207" "5591959" "5675685" "5686317" "5686318" "5687267" "5689279" "5692083" "5699073" "5703394" "5708280" "5764832" "5923091" "6217232").PN.	
"5686318" "5687267" "5689279" "5699083" "5699073"	
"5703394" "5708280" "5764832" "5923091"	
- 0 6514787.URPN 25 ("4039833" "4122479" "4660066" "4752816" "4818728" USPAT 2003 2003 2003 2003 2003 2003 2003 200	
- 0 6514787.ÚRPN. - 25 ("4039833" "4122479" "4660066" "4752816" "4818728" USPAT 2003 2003 2003 2003 2003 2003 2003 200	
- 25 ("4039833" "4122479" "4660066" "4752816" "4818728" USPAT 2003 "5170451" "5265177" "5515468" "5523628" "5545893" "5574814" "5586207" "5591959" "5675685" "5686317" "5686318" "5687267" "5689279" "5692083" "5699073" "5703394" "5708280" "5764832" "5923091" "6217232").PN. - 17 4039833.URPN. USPAT 2003 U	
"5170451" "5265177" "5515468" "5523628" "5545893"	i/04/04 15:07
"5574814" "5586207" "5591959" "5675685" "5686317" "5686318" "5687267" "5689279" "5692083" "5699073" "5703394" "5708280" "5764832" "5923091" "6217232").PN. - 17 4039833.URPN. USPAT 2003 - 7 4566024.URPN. USPAT 2003 - 27 4660066.URPN. USPAT 2003	
"5686318" "5687267" "5689279" "5692083" "5699073" "5703394" "5708280" "5764832" "5923091" "6217232").PN. - 17 4039833.URPN. USPAT 2003 - 7 4566024.URPN. USPAT 2003 - 27 4660066.URPN. USPAT 2003	
"5686318" "5687267" "5689279" "5692083" "5699073" "5703394" "5708280" "5764832" "5923091" "6217232").PN. - 17 4039833.URPN. USPAT 2003 - 7 4566024.URPN. USPAT 2003 - 27 4660066.URPN. USPAT 2003	
"5703394" ["5708280" ["5764832" ["5923091"]	
"6217232").PN. - 17 4039833.URPN. USPAT 2003 - 7 4566024.URPN. USPAT 2003 - 27 4660066.URPN. USPAT 2003	
- 17 4039833.URPN. USPAT 2003 - 7 4566024.URPN. USPAT 2003 - 27 4660066.URPN. USPAT 2003	
- 7 4566024.URPN. USPAT 2003 - 27 4660066.URPN. USPAT 2003	10 1 10 1 1 5 0 7
- 27 4660066.URPN. USPAT 2003	/04/04 15:07
1	/04/04 15:21
	/04/04 15:21
- 7314 fiber with (via cavity through hole) with (substrate wafer die) USPAT; 2003	/04/04 15:26
US-PGPUB !	
	/04/04 15:26
and semiconductor US-PGPUB	70 170 1 10.20
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IOAIOA 4E-00
	/04/04 15:28
and semiconductor) and core US-PGPUB	
	/04/04 15:28
and semiconductor) and core) and cladding US-PGPUB	i
	/04/04 15:51
	/04/04 15:51
	/04/04 15:51
	/04/04 16:04
"4902637" "4972248" "4978639" "5039628" "5077231"	/04/04 10.04
"5084742").PN.	
	/04/04 16:05
- 2 (("5057877") or ("6493490")).PN. USPAT; 2003	/04/04 17:07
US-PGPUB	
- 7 ("3723013" "3918814" "4978190" "5168321" "5216729" USPAT 2003	/04/04 17:10
"5349176" "5991027").PN.	
	/04/05 13:11
	/04/05 13:09
US-PGPUB	
	/04/05 13:13
with mirror US-PGPUB	!
- 271 ((438/401) or (438/for.435)).CCLS. USPAT 2003	/04/05 13:12
	/04/05 13:12
	/04/05 13:12
	/04/05 13:12
	/04/05 13:12 \ /04/05 13:12 \
	i
	/04/05 13:32
	/04/05 13:14
(438/750)).CCLS.) and etch adj pit US-PGPUB	
- 3 : ((((438/401) or (438/FOR.435) or (438/753) or USPAT; 2003	/04/05 13:15 ,
(438/750)).CCLS.) and (align alignment aligned lining aligning) US-PGPUB	ĺ
with etch\$3) and etch adj pit	
	/04/05 13:15
(438/750)).CCLS.) and (align alignment aligned lining aligning) US-PGPUB	5 1700 10,10
	; I
with etch\$3) and anode	10.4105.45.51
	/04/05 13:21
(438/750)).CCLS.) and (align alignment aligned lining aligning) US-PGPUB	1
with etch\$3	I L
- 14 ("5237199" "5362681" "5843831" "5899729" "5917237" USPAT 2003	/04/05 13:19
"5923995" "5943587" "5972234" "5981314" "6004405"	
"6066513" "6068954" "6080635" "6087202").PN.	1
	/04/05 13:22
	U-1/UJ 13.22
aperture opening) and (fiber cladding) US-PGPUB	(0.4.05 10.55
	/04/05 13:22
(hole aperture opening) and (fiber cladding)) and US-PGPUB	
interconnection and semiconductor	

-	821	(((align alignment aligned lining aligning) with etch\$3) and (hole aperture opening) and (fiber cladding)) and	USPAT; US-PGPUB	2003/04/05 13:22
-	27	semiconductor ((((align alignment aligned lining aligning) with etch\$3) and (hole aperture opening) and (fiber cladding)) and	USPAT; US-PGPUB	2003/04/05 13:22
-	0	semiconductor) and etch adj pit (((438/401) or (438/FOR.435) or (438/753) or (438/750)).CCLS.) and anode adj etch\$3	USPAT;	2003/04/05 13:32
-	751 5	(438/401) or (438/FOR.435) or (438/753) or (438/750)).CCLS.	US-PGPUB USPAT USPAT;	2003/04/05 15:04 2003/04/05 13:32
-	850	(438/750)) CCLS.) and anode with etch\$3 ((438/27) or (438/31) or (438/24) or (438/65) or (438/69) or	US-PGPUB USPAT;	2003/04/05 13:51
-	0	(438/74) or (438/for.136)).CCLS. ("32 and fiber with cladding with core with hole").PN.	US-PGPUB USPAT; US-PGPUB	2003/04/05 13:51
-	0	("32 and fiber with hole").PN.	USPAT; US-PGPUB	2003/04/05 13:51
-	2	(((438/27) or (438/31) or (438/24) or (438/65) or (438/69) or (438/74) or (438/for.136)).CCLS.) and fiber with cladding with core with hole	USPAT; US-PGPUB	2003/04/05 13:52
-	23	(((438/27) or (438/31) or (438/24) or (438/65) or (438/69) or (438/74) or (438/for.136)).CCLS.) and fiber with hole	USPAT; US-PGPUB	2003/04/05 13:53
-	10	"5796714"	USPAT; US-PGPUB	2003/04/05 13:53
-	1	5796714.pn.	USPAT; US-PGPUB	2003/04/05 14:03
-	10	(((438/27) or (438/31) or (438/24) or (438/65) or (438/69) or (438/74) or (438/for.136)).CCLS.) and cladding and core and hole	USPAT; US-PGPUB	2003/04/05 14:05
-	46	("3968564" "4744623" "4920070" "4970578" "5128831" "5221633" "5312765" "5352998" "5362976" "5409563" "5416872" "5489554" "5532506" "5587119" "5604835" "5618752" "5641545" "5656548" "5682062" "5729038" "5739067" "5742100" "5760478" "5767001" "5796714" "5798297" "5834849" "5844289" "5858814" "5858877" "5897333" "5900674" "5901050" "5902118" "5903045" "5915167" "5952665" "5963088" "6090636" "6143616" "6150188" "6181864" "6187677" "6198168" "6281042" "6122187").PN.	USPAT	2003/04/05 14:04
-	23	(((438/27) or (438/31) or (438/24) or (438/65) or (438/69) or (438/74) or (438/for.136)).CCLS.) and fiber with hole	USPAT; US-PGPUB	2003/04/05 14:09
-	1087	fiber with hole and cladding with core	USPAT; US-PGPUB	2003/04/05 14:09
-	280	(fiber with hole and cladding with core) and semiconductor	USPAT; US-PGPUB USPAT;	2003/04/05 14:09
-	173	((fiber with hole and cladding with core) and semiconductor) and optoelectronic fiber and (cladding with core with hole)	US-PGPUB USPAT;	2003/04/05 14:17
]_	1	"5784400".PN.	US-PGPUB USPAT	2003/04/05 14:27
-	4	("5155792" "5802236" "5907652" "6097870").PN.	USPAT	2003/04/05 14:31
-	46	("3968564" "4744623" "4920070" "4970578" "5128831" "5221633" "5312765" "5352998" "5362976" "5409563"	USPAT	2003/04/05 14:34
		"5416872" "5489554" "5532506" "5587119" "5604835" "5618752" "5641545" "5656548" "5682062" "5729038" "5739067" "5742100" "5760478" "5767001" "5796714" "5798297" "5834849" "5844289" "5858814" "5858877" "5897333" "5900674" "5901050" "5902118" "5903045" "5915167" "5952665" "5963088" "6090636" "6143616" "6150188" "6181864" "6187677" "6198168" "6281042" "6122187").PN.		
-	15	("5361320" "5550940" "5647039" "5703978" "5757540" "5802236" "5889907" "5937115" "5999671" "6011886" "6050109" "6058226" "6078709" "6104852" "6111999").PN.	USPAT	2003/04/05 14:38
	751	((438/401) or (438/FOR.435) or (438/753) or (438/750)).CCLS.	USPAT	2003/04/05 15:04

[-	1282	((438/27) or (438/31) or (438/69) or (323/902) or (257/80) or	USPAT	2003/04/05 15:05
	l	(257/81) or (257/83) or (257/84) or (257/85)).CCLS.		[
-	2	(((438/27) or (438/31) or (438/69) or (323/902) or (257/80) or	USPAT;	2003/04/05 15:05
	1	(257/81) or (257/83) or (257/84) or (257/85)).CCLS.) and fiber	US-PGPUB	1
	}	and (core adj hole)	}	
-	4986	((438/22) or (438/29) or (438/31) or (438/65) or (438/69) or	USPAT;	2003/04/05 15:06
		(438/456) or (438/457) or (438/606) or (438/609) or (438/611)	US-PGPUB	
	Ì	or (438/614) or (438/617) or (257/432) or (257/435) or	Ì	
		(257/447) or (438/27) or (438/65) or (323/902) or (250/551) or		l
	ļ	(257/80) or (257/81) or (257/82) or (257/83) or (257/84) or		į
		(257/85)).CCLS.		İ
•	3	(((438/22) or (438/29) or (438/31) or (438/65) or (438/69) or	USPAT;	2003/04/05 15:06
	ł	(438/456) or (438/457) or (438/606) or (438/609) or (438/611)	US-PGPUB	
	Í	or (438/614) or (438/617) or (257/432) or (257/435) or		
	1	(257/447) or (438/27) or (438/65) or (323/902) or (250/551) or		!
	1	(257/80) or (257/81) or (257/82) or (257/83) or (257/84) or		İ
		(257/85)).CCLS.) and core adj hole		
-	863	fiber with core with hole	USPAT;	2003/04/05 15:08
			US-PGPUB	
-	242	(fiber with core with hole) and cladding with core	USPAT;	2003/04/05 15:08
			US-PGPUB	
-	28	fiber with (core adj hole)	USPAT;	2003/04/05 15:10
			US-PGPUB	
-	888	core adj hole	USPAT;	2003/04/05 15:11
			US-PGPUB	0000/04/05 45 44
-	27	fiber with (core adj hole)	EPO; JPO;	2003/04/05 15:11
			DERWENT;	
			IBM_TDB	0000/04/05 45 07
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